

SYSTEM, METHOD, AND CIRCUIT FOR DYNAMIC
RANGE ENHANCEMENT IN A COMMUNICATION SYSTEM

ABSTRACT OF THE DISCLOSURE

A circuit includes one or more first amplifiers operable to amplify an incoming signal to produce an amplified incoming signal. The incoming signal is associated with a desired signal. The circuit also includes a controller. In response to the amplified incoming signal exceeding a first threshold and the desired signal not exceeding a second threshold, the controller is operable to allow one or more second amplifiers to amplify the incoming signal and/or increase a current supplied to the one or more first amplifiers.